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Brendy L. Belony

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor : Yuuta NAKAYA, et al.

Serial No. : 10/757,007

Filed : January 14, 2004

Title : **METHOD AND APPARATUS FOR...**

November 7, 2006

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

SIR:

In order to comply with discretionary regulations 37 CFR §§ 1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and copies of non-US documents (if any) listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

For documents written in a language other than English, English language abstracts and/or explanations are annexed thereto explaining relevancy in accordance with 37 CFR §1.98 (a)(3).

Attached is a European Search Report dated October 20, 2006, from the corresponding European Application.

Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the information disclosure statement, thus no fee is due

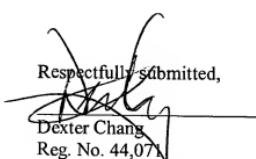
As this statement is being filed prior to issuance of a first Office Action, no fee is due. However, any fee determined to be due with this statement may be charged to Deposit Account 50-1290.

The present Disclosure Statement is being submitted in compliance with 37 CFR §1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR §§1.104 (a) and 1.106 (b), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is respectfully solicited.

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Account 50-1290.

Respectfully submitted,

  
Dexter Chang  
Reg. No. 44,071

CUSTOMER NUMBER 026304  
Docket No.: FUJI 20.846



Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

1449/PTO NOV 07 2006 Department of Commerce  
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Application No. : 10/757/007

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**First Named Inventor : Y. N.**

**Group Art Unit**

**Examiner Name :**

Attorney Docket No. : FUJI 20.846

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Sheet 1 of 1

## U.S. PATENT DOCUMENTS

SEARCHED DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document	Kind Code if known <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Column Lines Where Relevant Passages or Relevant Figures Appear
	2002/0050948		TANAKA ET AL.		05-02-2002	
	6,492,942		KEZYS		12-10-2002	
	6,411,612		HALFORD ET AL.		06-25-2002	

## **FOREIGN PATENT DOCUMENTS**

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

INTERFROCK - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check here if English language translation attached
		European Search Report dated October 20, 2006	
		YE (GEOFFREY) LI. "Pilot-Symbol-Aided Channel Estimation for OFDM in Wireless Systems" Vehicular Technology Conference, May 16, 1999, vol. 2, pages 1131-1135, XP010342070.	
		JUN CHENG ET AL. "Adaptive Beamforming of ESPAR Antenna Using Sequential Perturbation" 2001 IEEE MTT-S International Microwave Symposium Digest, Vol. 1 of 3, May 2001, pages 133-136, XP001067250.	
Examiner Signature		Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Only citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.4). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioners for Patents, Washington, DC 20231.